Capacitor Voltage Transformers for Outdoor Installation from 72.5 kV to 800 kV
Capacitor Voltage Transformers for
Air Insulated High Voltage Substations (72,5 kV to 800 kV)

Instrument transformers and coupling capacitors for high-frequency
telecommunication systems

**Characteristics:**
- Outdoor installation
- Conformity to the main International Standards
- Insulation: film(pp)-paper-synthetic fluid
- Mineral oil insulated electromagnetic unit contained in the transformer’s bottom tank
- All external metallic parts in aluminium alloy
- Hermetically sealed construction
- Constant accuracy in all service conditions
- High fidelity of transient response and rapid damping of ferroresonance oscillations
- Maintenance free

**Advantages:**
- No partial discharges
- Easy installation and commissioning
- Long life cycle time

**Suitable for:**
- Carrier for high-frequency telecommunication (low-voltage terminal for H.F. coupling located inside secondary terminal box)
- Line trap fixed on the top

**Special Optional availables on request:**
- Fuses or MCBs in secondary terminal box
- Composite Grey insulator (Standard is equipped with Porcelain Brown)
- Carrier accessories (Drain Coil, Earth Switch, Surge Arrester)
- Voltage Tap Grounding Switch

### Electrical Characteristics

<table>
<thead>
<tr>
<th>Type</th>
<th>Rated capacitance</th>
<th>Highest system voltage</th>
<th>Test voltages</th>
<th>Rated primary voltages</th>
<th>Maximum burdens</th>
<th>Creepage distance</th>
<th>Overall Dimensions and Weights</th>
</tr>
</thead>
<tbody>
<tr>
<td>TCVT 72</td>
<td>12000 24000</td>
<td>72.5</td>
<td>140 325</td>
<td>60:√3 66:√3</td>
<td>75 150</td>
<td>200 300 400 600</td>
<td>1813 2248 1530 195</td>
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<td>TCVT 123</td>
<td>8000 16000</td>
<td>123</td>
<td>230 550</td>
<td>110:√3 115:√3</td>
<td>75 150</td>
<td>250 350 500 700</td>
<td>3075 3815 1830 215</td>
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<tr>
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<td>4000 12000</td>
<td>145</td>
<td>275 650</td>
<td>130:√3 132:√3</td>
<td>50 100</td>
<td>150 300 600</td>
<td>3625 4495 2025 225</td>
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<td>4000 10000</td>
<td>170</td>
<td>325 750</td>
<td>150:√3</td>
<td>50 100</td>
<td>150 250 500</td>
<td>4250 5270 2240 240</td>
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<td>245</td>
<td>460 1050</td>
<td>220:√3 230:√3</td>
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<td>200 350 400 700</td>
<td>6125 7595 2805 275</td>
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<td>362</td>
<td>510 1175</td>
<td>330:√3</td>
<td>100 150</td>
<td>250 350 500 700</td>
<td>9050 11222 3650 360</td>
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<td>630 1425</td>
<td>380:√3 400:√3</td>
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<td>300 350 600 700</td>
<td>10500 13020 4285 415</td>
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<td>680</td>
<td>1550 500:√3</td>
<td>150 200 350 450 700 800</td>
<td>13125 16275 5000 430</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

(*) for composite insulator
1 - Fixing holes (28 DIA)
2 - Earth terminal for 10 to 15 mm dia cable
3 - Lifting holes
4 - Secondary terminal box
5 - Oil level gauge of electromagnetic unit
6 - Threaded holes for line trap fixing
7 - High-voltage terminal
8 - Oil draining plug of electromagnetic unit
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Data and characteristics indicated in this publication may be varied without notice

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